

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P192897

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33913 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



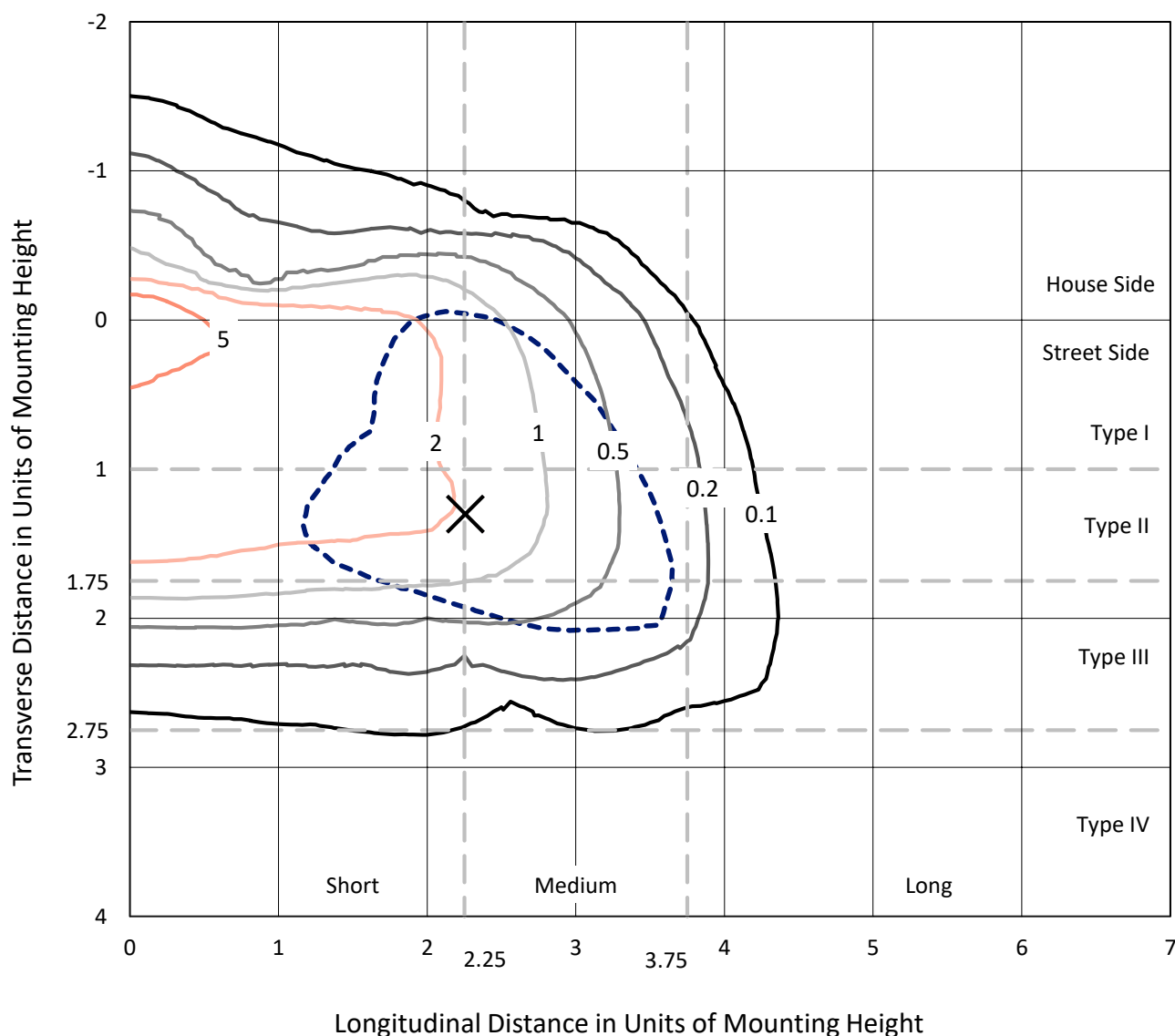
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

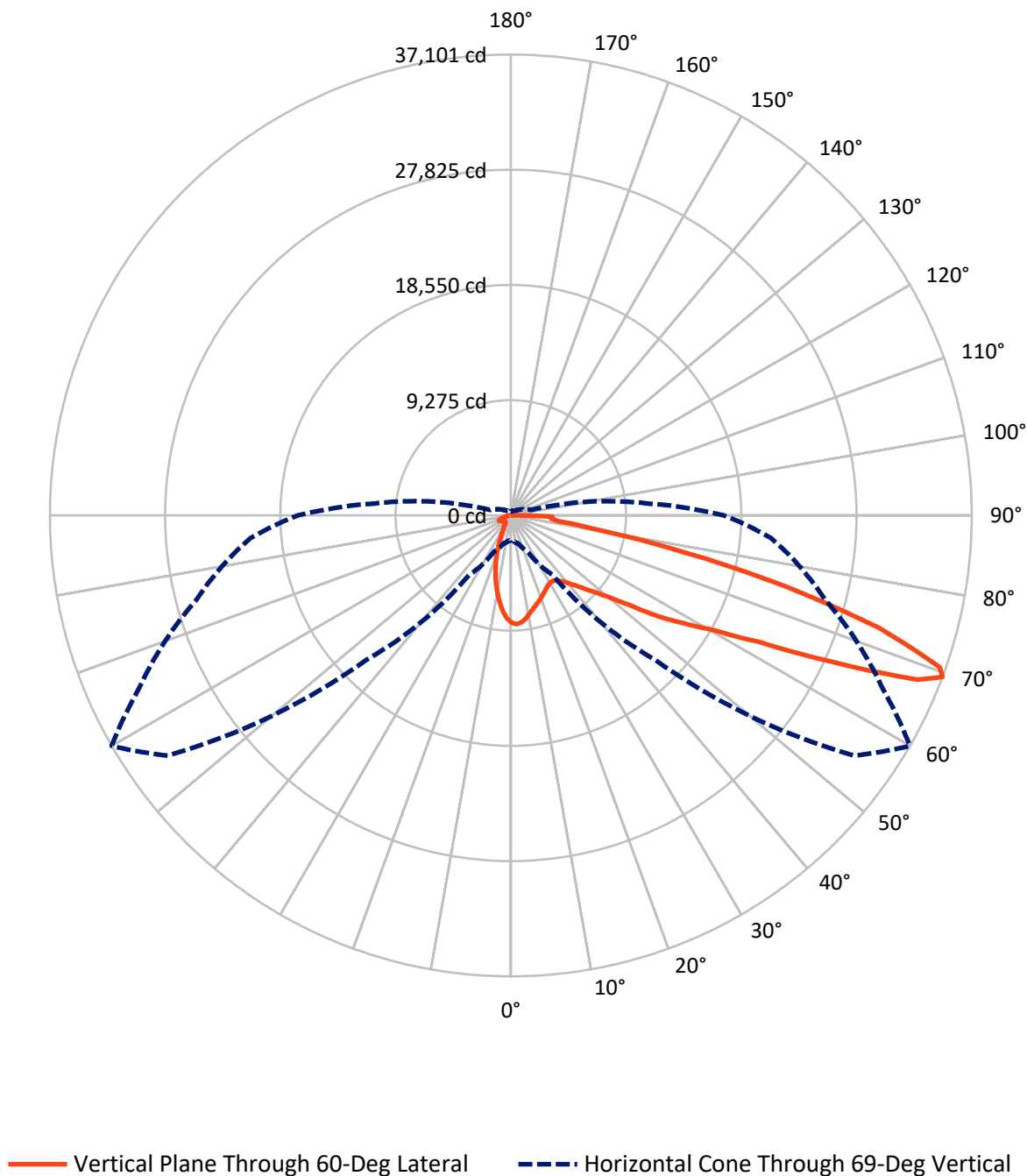


Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4824.8	0.0	4824.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	29088.2	0.0	29088.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	33913.0	0.0	33913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.7	2.2
10°-20°	1556.8	4.6
20°-30°	1983.6	5.8
30°-40°	2726.9	8.0
40°-50°	4424.7	13.0
50°-60°	7096.1	20.9
60°-70°	9444.3	27.8
70°-80°	5099.2	15.0
80°-90°	850.8	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	33913.0	100.0
0°-180°	33913.0	100.0

Coefficient of Utilization



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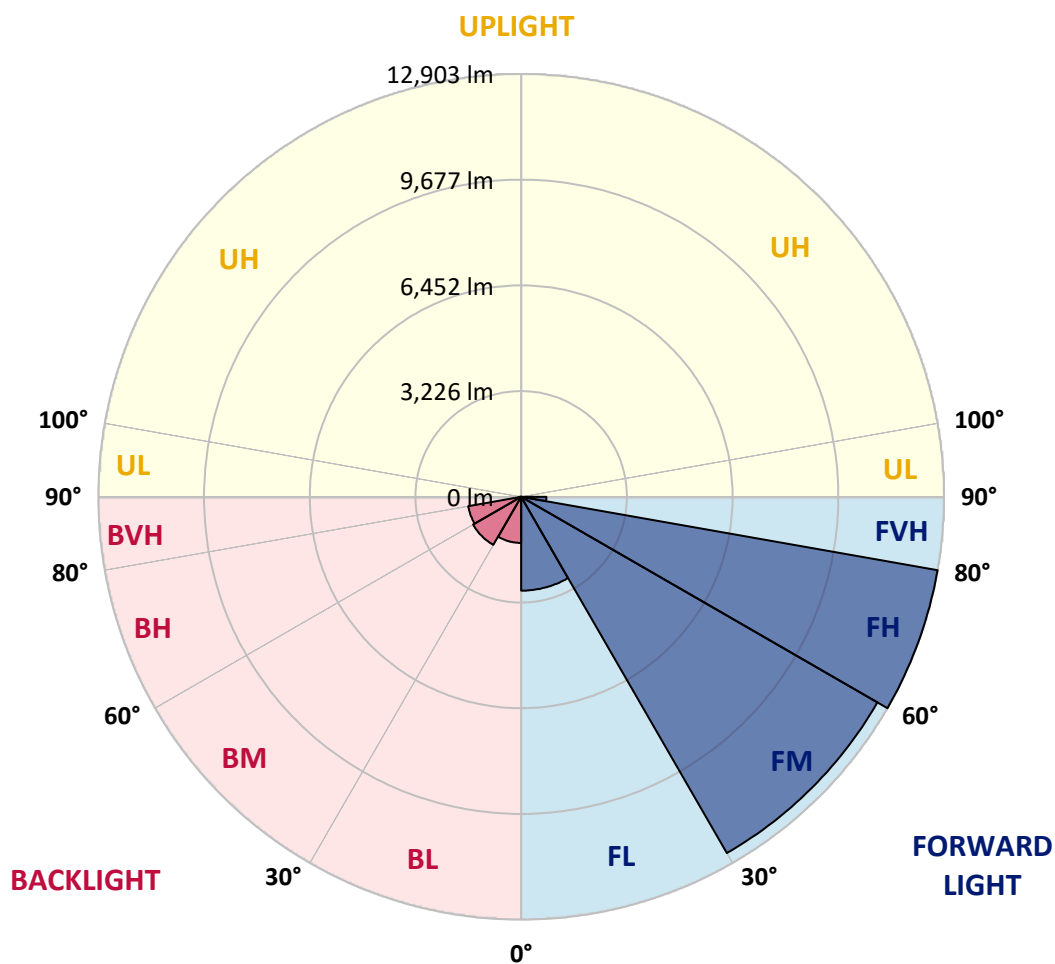
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2863.5	8.4			
FM	(30°-60°)	12552.6	37.0			
FH	(60°-80°)	12903.2	38.0			G5
FVH	(80°-90°)	768.9	2.3			G5
BL	(0°-30°)	1407.5	4.2	B3/2500		
BM	(30°-60°)	1695.0	5.0	B2/2500		
BH	(60°-80°)	1640.3	4.8	B3/2500		G3/2500
BVH	(80°-90°)	81.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6
2.5°	8818.5	8838.1	8829.9	8825.0	8839.7	8816.7	8769.3	8754.6	8731.7	8677.6	8585.8
5°	8487.6	8546.5	8543.2	8587.4	8661.2	8680.8	8659.6	8662.8	8620.2	8553.1	8400.7
7.5°	7915.9	7940.4	7953.5	8050.1	8184.5	8292.6	8384.3	8413.8	8394.2	8336.8	8140.3
10°	7326.1	7345.7	7376.8	7489.8	7660.2	7809.3	7983.0	8082.9	8125.5	8115.7	7896.1
12.5°	6819.9	6839.5	6880.5	7008.2	7211.4	7394.8	7647.2	7771.6	7873.2	7933.9	7698.0
15°	6366.1	6408.7	6447.9	6595.4	6823.1	7063.9	7349.0	7506.2	7663.6	7799.5	7522.6
17.5°	6012.2	6054.8	6077.8	6212.1	6454.5	6749.4	7083.6	7268.7	7465.3	7688.1	7349.0
20°	5807.4	5827.2	5817.3	5892.7	6110.6	6423.5	6819.9	7034.4	7272.0	7583.2	7175.4
22.5°	5750.1	5751.7	5715.7	5707.4	5848.4	6112.2	6538.1	6798.5	7090.2	7514.5	7026.3
25°	5889.4	5884.4	5786.2	5705.8	5720.6	5874.7	6266.1	6569.2	6937.9	7499.7	6911.6
27.5°	6199.0	6213.7	6067.9	5917.2	5768.2	5763.2	6059.7	6379.2	6813.3	7566.9	6862.5
30°	6633.1	6657.7	6502.0	6310.4	6030.2	5799.3	5979.4	6266.1	6736.3	7706.2	6854.3
32.5°	7108.2	7134.4	7016.4	6814.9	6447.9	6022.1	6035.2	6276.0	6733.0	7901.1	6910.0
35°	7614.4	7643.9	7583.2	7412.9	7004.9	6433.1	6248.1	6434.9	6839.5	8199.3	7059.0
37.5°	8179.5	8225.5	8241.9	8079.6	7643.9	6975.4	6597.1	6736.3	7080.3	8613.7	7332.6
40°	8993.7	9057.7	9052.7	8820.1	8376.2	7707.8	7136.0	7172.1	7455.6	9167.4	7770.0
42.5°	10553.4	10566.5	10158.5	9652.3	9182.1	8477.8	7771.6	7742.2	7973.2	9868.6	8413.8
45°	12537.2	12483.1	11575.6	10597.6	10024.2	9362.3	8598.9	8454.8	8630.1	10723.7	9219.9
47.5°	14183.6	14059.1	12912.4	11562.5	10915.3	10324.0	9570.4	9318.1	9414.8	11693.5	10261.7
50°	14755.4	14661.9	13711.8	12365.2	11759.0	11497.0	10766.3	10409.1	10435.4	12850.1	11482.2
52.5°	14632.4	14619.3	13985.4	12894.3	12548.7	12728.9	12460.3	11976.9	11721.4	14134.5	12799.2
55°	14342.5	14370.4	14141.0	13510.4	13451.4	13918.2	14673.4	14316.2	13521.7	15430.2	14160.6
57.5°	13335.0	13407.1	13911.7	14285.2	14904.4	15599.1	16455.7	16354.3	15459.7	16831.0	15779.2
60°	10743.4	10910.4	12263.6	14134.5	16400.2	18572.3	18955.7	18719.8	17458.4	18569.0	17917.1
62.5°	7527.5	7701.2	9310.0	12237.4	16154.3	21930.6	23424.7	22407.4	20328.6	21129.6	20684.0
65°	4030.0	4113.5	5342.2	8490.9	13638.1	22623.7	29956.2	28408.2	24872.9	24286.3	23051.2
67.5°	2223.1	2268.9	2739.1	4287.3	8734.9	19922.3	34117.3	35287.0	30552.6	26388.2	22620.4
69°	2010.1	2052.7	2360.6	3246.9	5845.2	16472.2	33711.1	37100.5	33042.6	26180.1	21028.0
70°	1965.9	2005.1	2282.0	2993.0	4731.2	13577.4	32349.7	36636.9	33635.7	25434.8	19638.8
72.5°	1769.2	1811.8	2080.6	2688.4	4043.1	6769.0	25624.8	30976.8	30537.9	22053.6	14896.2
75°	1649.7	1689.0	2144.4	2632.6	3871.0	4283.9	16893.2	22830.0	22448.3	15427.0	8032.0
77.5°	706.1	702.7	994.4	2228.1	3928.4	4147.9	9077.3	14262.2	13012.2	6593.8	2306.6
80°	471.8	463.6	471.8	655.3	3602.4	4170.9	4755.7	7239.2	5468.3	1680.9	1137.0
82.5°	406.2	399.7	414.4	399.7	1266.4	4760.7	4043.1	3849.7	2599.9	955.0	563.6
85°	273.5	262.1	357.2	358.8	597.9	4229.9	4554.3	3251.9	2103.5	566.8	278.5
87.5°	131.1	127.9	208.0	253.9	350.6	1718.4	5109.6	3332.1	2121.5	290.0	132.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6
2.5°	8557.9	8490.9	8425.3	8346.7	8264.8	8173.0	8127.1	8081.3	8069.8	8056.7	8010.8
5°	8322.1	8227.1	8063.3	7883.0	7693.1	7507.9	7367.1	7278.6	7211.4	7177.0	7116.4
7.5°	8017.3	7878.1	7591.5	7280.2	6960.7	6669.1	6416.9	6258.0	6107.3	6036.8	5956.5
10°	7727.5	7519.3	7073.8	6615.1	6156.4	5715.7	5301.3	5008.0	4747.6	4601.7	4498.5
12.5°	7478.5	7193.4	6575.8	5954.8	5325.9	4698.3	4077.4	3589.2	3181.4	2966.8	2857.0
15°	7235.9	6892.0	6102.3	5314.4	4506.7	3653.2	2837.4	2283.6	1946.2	1811.8	1765.9
17.5°	7016.4	6575.8	5627.3	4668.8	3661.4	2629.4	1906.9	1602.2	1472.7	1428.6	1413.9
20°	6778.9	6256.3	5134.1	3994.0	2780.0	1838.1	1489.1	1354.9	1302.4	1289.3	1282.7
22.5°	6549.5	5941.7	4662.3	3271.5	1996.9	1418.7	1279.4	1223.7	1215.5	1227.0	1227.0
25°	6354.6	5659.9	4152.8	2516.2	1466.1	1194.2	1145.1	1132.0	1163.2	1205.6	1213.9
27.5°	6208.7	5429.0	3610.6	1857.7	1168.1	1038.6	1037.0	1058.2	1135.3	1217.1	1233.5
30°	6108.9	5209.5	3030.7	1340.1	979.6	914.2	940.2	986.2	1099.2	1215.5	1246.6
32.5°	6058.1	5047.3	2426.2	1037.0	838.8	802.7	847.0	902.7	1014.0	1122.2	1163.2
35°	6097.4	4927.7	1856.1	865.0	740.4	712.6	758.5	812.6	878.1	923.9	955.0
37.5°	6244.8	4880.2	1400.7	774.8	673.2	647.2	683.1	714.2	740.4	753.6	768.3
40°	6562.6	4931.0	1122.2	729.0	635.7	602.9	617.7	629.2	645.5	658.5	665.1
42.5°	7031.2	5083.4	1005.8	710.9	616.0	568.4	565.2	570.2	591.4	616.0	620.9
45°	7686.5	5352.1	997.6	722.4	606.2	540.7	525.9	532.4	565.2	602.9	609.4
47.5°	8523.7	5761.6	1063.2	756.8	614.4	525.9	501.3	509.4	550.4	601.3	609.4
50°	9537.7	6333.3	1173.0	807.7	650.4	529.2	493.1	498.0	540.7	596.3	604.5
52.5°	10735.2	7144.3	1292.5	856.8	688.0	550.4	499.7	488.2	527.5	576.7	586.5
55°	12067.0	8184.5	1415.5	901.1	707.7	576.7	512.8	475.1	502.9	543.9	552.1
57.5°	13701.9	9639.2	1628.4	943.6	720.8	594.7	525.9	461.9	471.8	501.3	507.8
60°	15915.1	11696.8	2003.5	1014.0	750.3	601.3	524.2	450.4	440.7	457.0	460.3
62.5°	18567.4	13931.3	2316.4	1102.5	799.4	606.2	514.4	442.3	414.4	414.4	417.7
65°	20141.7	14529.3	2142.8	1176.2	840.4	601.3	502.9	434.1	394.8	376.8	378.5
67.5°	18806.6	12778.0	1836.4	1190.9	838.8	578.3	484.9	419.3	375.2	347.3	345.7
69°	17134.0	11025.2	1698.9	1151.7	799.4	548.8	461.9	402.9	360.4	330.9	329.3
70°	15785.8	9955.3	1608.8	1109.1	756.8	527.5	443.9	388.3	349.0	321.1	317.8
72.5°	11477.2	6523.4	1374.5	953.4	624.2	442.3	383.4	340.8	311.3	294.9	291.6
75°	5735.3	3110.9	1115.6	773.2	478.3	353.9	314.5	285.0	270.3	267.0	265.4
77.5°	1883.9	1425.3	797.8	576.7	355.5	276.9	253.9	232.6	229.3	239.2	235.9
80°	1035.3	829.0	506.2	381.8	242.4	203.1	199.8	188.4	193.3	209.7	206.4
82.5°	527.5	430.8	312.9	229.3	163.8	145.8	158.9	152.3	158.9	173.6	172.0
85°	260.5	235.9	198.2	139.2	108.1	93.4	113.1	118.0	121.3	132.6	132.6
87.5°	150.7	139.2	104.9	65.5	54.1	49.1	65.5	63.9	75.4	82.0	80.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)